



**protected &
connected**

Hearing Protection Portfolio

Product Focus



Introduction

In this brochure we will introduce you to the most popular hearing protection and communications products in the 3M portfolio, briefly outlining their features and benefits.

The 3M Peltor range offered by XEVA include the following types of hearing protection:

- Simple hearing protection to meet health and safety regulations
- Hearing protection combined with a communications device
- Hearing protection combined with a separate radio device such as a two-way radio
- Hearing protection with a radio device built into the headset itself (Litecom)



You can click the interactive links in each product section to learn more about the range on our website.

Choosing a hearing protection product without communications device

Hearing Protection products are designed to be used in noisy, or potentially noisy, environments where high levels of noise can damage the operatives' hearing. Often hearing protection will be mandated in the safety case for a particular facility.

Hearing protection is in the highest category of threat for industrial health and safety.

Below are the major features and functions that a user needs to consider when choosing such a device.

These products are used for hearing protection only and have no two-way communications capability.

Hearing Protection

Noise Cancellation



Reduces the level of all noise entering the ears

Ambient Listening



Allows ambient noise to enter the ears until it reaches a potentially dangerous level

Form Factor

Earplugs (buds)



Bud form factor that fits in the ear

Helmet



Supplied with clips to fit most standard hardhats

Headband



A simple over-the-head form factor

Connectivity

3.5 mm Listen Only Mode



The capability to connect a third party audio device such as a broadcast radio or MP3 player - Listen only

Special Feature

AM/FM Radio



A broadcast radio built into the headset cup

3M Peltor's Hearing protection products without communications

Simple Hearing Protection No Communications

The X Series



This is simple hearing protection with no active parts and no electronics.

They are purely designed to protect your ears from potentially damaging sound levels.

They can be supplied with a headband or fixed onto a hard hat.

There are five models and they are colour coded to denote the level of hearing protection.

[X Series
Product Pages](#)

Hearing Protection with a broadcast radio receiver

WorkTunes



Headband or helmet fit, these include an AM/FM broadcast radio with five presets in the cup.

They have a cable with a standard plug that is compatible with any audio device that has a 3.5mm socket like a phone, radio or MP3 player.

This means that as well as listening to the onboard radio you can use your own device (listen only).

[WorkTunes
Product Page](#)

Level-Dependent Simple Hearing Protection

Protac III



The Protac III headset which has a similar form factor to the WorkTunes with the addition of level dependent hearing protection.

This means that the headsets have microphones which monitor the ambient noise, that is the noise around the user, and when it goes above a dangerous level the hearing protection is activated.

This also has a socket for a simple lead that ends in a 3.5mm jack to allow connection to a listen-only device.

[Protac III
Product Page](#)

Electronic Earplugs



The form factor and charging of the Electronic Earplugs (EEP) are very similar to a pair of buds.

This device is electronic and provides level-dependent hearing protection, meaning that they allow the user to hear ambient noise below the set level of 82dB. Once noise levels reach above 82dB the hearing protection becomes active.

[Electronic Earplugs \(EEP\)
Product Page](#)

Choosing a hearing protection product with communications device

Hearing Protection products are designed to be used in noisy, or potentially noisy, environments where high levels of noise can damage the operatives' hearing. Often hearing protection will be mandated in the safety case for a particular facility.

Hearing protection is in the highest category of threat for industrial health and safety.

Below are the major features and functions that a user needs to consider when choosing such a device.

These products are used for hearing protection and have two-way communications capability either via a built-in two-way device or via a third-party device such as a two-way radio connected by a number of means detailed below.

Form Factor

Headband



A simple over-the-head form factor

Helmet



Supplied with clips to fit most standard hardhats

Neckband



Secures Headset when user is wearing non-standard headgear

Connectivity

Cable



A simple physical connection to a comms device

Bluetooth



Requires a Bluetooth-capable comms device

Bluetooth and Cable



Connect to multiple devices

3.5 mm (Listen Only)



Connect a third party audio device

Push to Talk

PTT on Cup



A PTT incorporated into the headset

No PTT on Cup



A download connects the headset to the radio via a separate PTT device.

Communications Device

Built In Comms Device



This can be a 446 or DMR radio allowing the user to communicate back to back or via a system

External Comms Device



Connect the headset by cable or Bluetooth to a two-way radio or phone.

Standard FLX2 and FLX2 with external PTT

FLX2 is hearing protection for use with a third-party two-way radio device.

This is a professional tool for two-way radio users who need hearing protection.

There is a range of cables to connect both Motorola and other manufacturers' radios to the headsets.

Standard FLX2 (PTT on Cup)



These headsets offer simple hearing protection, the different form factors mentioned above, and cable connection via a separate cable straight into the radio.

There is a PTT on the cup of the headset.

This is a two-piece kit – headset and cable (cables sold separately).

[FLX2 \(PTT on Cup\)
Product Page](#)



Standard FLX2 (No PTT on Cup)



With this headset, you have simple hearing protection again, the different form factors and a cable which connects to a third element. This is the separate PTT connected to the radio.

This is a three-piece kit - Headset, FLX 200 Cable and PTT (FLX 200 Cable & PTT sold separately)

This product would typically be use in heavy industrial applications when the operator is required to wear protective gloves.

[FLX2 \(No PTT on Cup\)
Product Page](#)

CH-5 High Attenuation Headset

The CH-5 is hearing protection for use with a third-party two-way radio device.

This product is similar to the FLX2 headsets, offering a higher level of hearing protection; typically an additional 5 or 6 dBs. This provides high attenuation on impact noise, and the highest SNR on the market.

This is a professional tool for two-way radio users who need the highest level of hearing protection.

There is a range of cables to connect both Motorola and other manufacturers' radios to the headsets.

CH-5 High Attenuation Headset (PTT on Cup)



This headset offers simple hearing protection, Headband and Helmet versions, and cable connection via a separate download directly into the radio.

There is a PTT on the cup of the headset.

This is a two-piece kit - headset and cable (cables sold separately).

**CH-5 (PTT on Cup)
Product Page**

CH-5 High Attenuation Headset (no PTT on Cup)



With this headset, you have simple hearing protection again, the two different form factors and a cable which connects to a third element. This is the separate PTT connected to the radio.

This is a three-piece kit - headset, FLX 200 Cable and PTT (FLX 200 Cable & PTT sold separately)

This product would typically be use in heavy industrial, high noise applications when the operator is required to wear protective gloves.

**CH-5 (No PTT on Cup)
Product Page**

WS Alert X

The WS Alert X headset is a level-dependent hearing defender with Bluetooth technology.

Clearly hear incoming callers by connecting one device such as a mobile phone. Using the noise-cancelling boom microphone you can speak at a normal volume even in noisy environments, and the caller can hear you without the surrounding noise interfering with your conversation.

Ambient microphones in the cups help with situational awareness, keeping you alert of oncoming vehicles, alarms and other warning signals, whilst providing hearing protection when you need it.

The Push-to-Listen feature instantly pauses your Bluetooth streaming while increasing your ambient listening ability, reducing the temptation to remove your headset.

WS Alert X Headset



This headset offers level-dependent hearing protection with Bluetooth connectivity for devices such as mobile phones.

Headband and helmet versions.

Noise-cancelling boom microphone.

Enhanced situational awareness.

Glove-friendly large buttons and voice-guided menus.

[WS Alert X
Product Page](#)

WS Protac XPI

The WS Protac XPI offers level-dependent hearing protection and Bluetooth Multipoint connectivity for simultaneous connection to up to two external Bluetooth enabled devices. The WS Protac XPI with FLX2 also offers FLX2 cable connectivity – this provides more flexibility and connection to an extra non-Bluetooth enabled device.

Ambient microphones in the cups help with situational awareness, keeping you alert of oncoming vehicles, alarms and other warning signals, whilst providing hearing protection when you need it.

The Push-to-Listen feature instantly pauses your Bluetooth streaming while increasing your ambient listening ability, reducing the temptation to remove your headset.

WS Protac XPI



This headset offers level-dependent hearing protection with Bluetooth connectivity for up to two devices such as a mobile phone and a Bluetooth enabled radio.

Headband and helmet versions.

VOX (Voice Operated Transmission) for hands free operation.

Level-dependent technology for enhanced situational awareness.

[WS Protac XPI
Product Page](#)



WS Protac XPI with FLX2



This headset offers level-dependent hearing protection with Bluetooth connectivity for up to two devices such as a mobile phone and a Bluetooth enabled radio, in addition to a FLX2 jack for connection to an extra non-Bluetooth enabled radio.

Headband, helmet and neckband versions.

VOX (Voice Operated Transmission) for hands free operation.

Level-dependent technology for enhanced situational awareness.

[WS Protac XPI with FLX2
Product Page](#)

ATEX Headset



The Peltor ATEX headset has been specifically designed for DP4000 ATEX radios.

This product has simple hearing protection with cable connectivity to a remote PTT via a fixed cable. This PTT is a Motorola product which connects to the DP4000 Ex series radio.

This product does not feature ambient listening.

[ATEX Product Page](#)

Hearing protection with a radio communications device built into the headset itself (Litecom Range)

We have also developed a Product Focus showcasing the Litecom range of headsets with built-in communications and you can find this on the link below.

This range of devices features both 446 and DMR, digital and analogue radios built into the headsets. There are versions that feature Bluetooth, level-dependent, ambient listening technology and ATEX Certification.



[Litecom Range Product Focus](#)



ATEX Listen-Only



The CH-3 FLX2 Listen only Ex Headset helps protect against harmful noise, whilst allowing connection to an ATEX communications device for listen-only functionality.

The headset connects to ATEX two-way radios or RSMs with a 3.5mm or 2.5mm cable (sold separately). It also features a newly-designed lighter headband.

[ATEX Listen-Only Product Page](#)

Try before you buy

XEVA is pleased to support the 3M Peltor “try before you buy” scheme. If you have a qualified lead and your customer needs convincing that Litecom or any other Peltor or Versafolo products are the solution for them, we can arrange for a demonstration kit to be sent out free of charge.